

RR-1422-LVD



The RR-1422-LVD is a high packaging density enclosure offering a powerful and expandable U160 RAID solution. The 14 drive 3U system provides 2 channels of 7 drives and is available in three versions offering a single/dual active RAID or a RAID upgradeable JBOD storage solution.

The RR-1422-LVD is very flexible, with the capacity for expansion and growth. A JBOD system can be easily expanded to single or dual RAID. Additional capacity can also be achieved by adding further Xyratex systems.

Integrated within the system, the Chaparral JSS122 RAID controller provides a high level of performance. The controller has two Ultra 160 host channels and two Ultra 160 SCSI drive channels and offers many outstanding features such as high ultimate transfer/transaction rates and uncompromised data reliability. Furthermore, the close working relationship between Chaparral and Xyratex ensure that we combine to provide an optimized system solution.

The RR-1422-LVD system is controlled and maintained using X-CAM, Xyratex's system management software. This user-friendly interface allows for system configuration and monitoring of the array. Basic feedback from the enclosure management services and SAF-TE are displayed. The application allows for remote monitoring and notification - allowing the end user easy management of their online storage subsystems.

Features

- Supports latest 10,000 & 15,000 rpm drive technologies
- High packaging density enclosure with 14 drives in a 3U form factor
- Suitable for 19" rack mounting or desktide tower configurations
- Customizable look and feel
- 0, 1 or 2 Chaparral JSS122 Ultra 160-to-Ultra 160 SCSI RAID
- 2 PSU/Cooling modules mounted in rear
- SCSI RAID and JBOD I/O modules with SAF-TE for in-band enclosure status reporting
- Hot pluggable, lockable drive carriers with drive electronics protection
- LEDs and audible alarm for easy isolation of faults
- Microsoft accredited
- FCC class A, CISPR-A, CE (IEC950)/(EN60950), UL and cUL

Chaparral JSS122 RAID Controller Features

- RAID Levels 0, 1, 1+0, 3, 4, 5, 10
- Active/Active failover with dual hot-pluggable controllers
- Single and dual controller configurations
- Flexible configuration featuring single or dual SCSI target host connectivity
- Sustained transfer rates over 180 Mbytes/sec using a single controller
- Greater than 15,000 IOPS from a single controller
- On-line capacity expansion allowing reconfiguration without interruptions
- OS independent - no special software drivers required
- Controller/drive hot-swap supported
- Array status monitoring

Technical Specification

| | |
|----------------------------------|---|
| Product code: | RR-1422-LVD |
| SCSI drives supported: | 14 per enclosure (2 Channels of 7 Drives) |
| External interface: | VHDCI |
| Device types supported: | Ultra 2 & U160 LVD SCSI drives to 15,000 RPM up to 146GB (For details of U320 configurations please contact Xyratex) |
| Hot pluggable components: | PSU/cooling module, disk drives, I/O Modules and RAID: Chaparral JSS122 controller |

Dimensions

H: 130mm (5.12"); **D:** 530mm (20.87"); **W:** 447mm (17.60")

- 3 EIA Units
- Standard 19" rack mountable
- 35kg (77.16 lbs)

Power (2 PSUs per enclosure)

Voltage: 100-240V AC or -48V DC

Frequency: 60/50 Hz

Power consumption: 400 W

Operational currents: 4/2 A

Temperature and Humidity

| | Operating (Rack) Disks only | Non Operating | Storage | Shipping |
|--------------------------|-----------------------------------|---------------------------------|---------------------------------|--|
| Temp Range | 10°C to 40°C | 0°C to 50°C | 1°C to 60°C | -40°C to 60°C |
| Relative Humidity | 20% to 80% non- condensing | 8% to 80% non- condensing | 5% to 80% non- condensing | 5% to 100% condensing but not precipitating |
| Max Wet Bulb | 23°C | 27°C | 29°C | 29°C |

Altitude

Operating: 0 to 2133m (0 to 7,000ft)

Non operating: -305 to 12,192m (-1000 to 40,000 ft)

Shock and Vibration

Operational shock: 5g 10ms $1/2$ Sine

Operational vibration: 0.21 grms 5-500Hz Random

Non-op shock: 30g 10ms $1/2$ Sine

Non-op vibration: 1.04 grms 2-200Hz Random

Relocation vibration: 0.3g 2-200Hz Sine

Acoustics (at ambient) 20°C

Sound power operating: Less than 6.0 B LwA

Sound pressure operating: Less than 54 dB LpA average

Chaparral JSS122 RAID Controller Features

Host Interface: Two Ultra 160 SCSI VHDCI connectors

Device Interface: Two Ultra 160 SCSI device channels with VHDCI expansion connectors

RAID Levels Supported: 0, 1, 1+0, 3, 4, 5, 10, JBOD

- 128 or 256 Mbytes of ECC-protected SDRAM DIMM
- Integrated Nickel Metal Hydride (NiMH) cache battery

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